

	Math Learning Goals <ul style="list-style-type: none"> Participants will share strategies they have found to be successful for students who struggle with proportional reasoning Participants will analyze a student's proportional reasoning Participants will explore a variety of resources to support students who struggle with proportional reasoning 	Materials <ul style="list-style-type: none"> Participant journals Video clip of student interview Participant laptops
Minds On...	Groups of Two→ Sharing Best Practices <ul style="list-style-type: none"> Participants will write in their journals the following headings 3 times with space to record their responses: Give One ~ Get One Participants think of 3 strategies they have used with students who struggle with patterning and algebra/proportional reasoning that have been helpful to the students and record the strategies in their journals under the heading 'Give One' On a given signal, participants will find someone who is not at their table and share one of their strategies with that person. Then the participants will switch roles and the person who gave a strategy will now get a strategy from their partner and record it in their journal under the heading 'Get One'. Participants repeat this process two more times. 	
Action!	Individual→ Building Content Knowledge <ul style="list-style-type: none"> Participants view video clip of an interview with a student who is being asked questions about doubling and halving with the following guiding questions: <ul style="list-style-type: none"> What is the student able to do? What does the student need? Is content an area of need for the student? Are one or more mathematical processes an area of need? Participants view the video a second time and record the questions that the teacher asks the student to assess what the student understands. Partners → Think-Pair-Share-Square <ul style="list-style-type: none"> Participants think about what their next instructional steps would be for this student. After they have time to think on their own, they share their ideas with an 'elbow partner'. Once pair has had a chance to share, they share with a second pair. Partners → Building a Collection of Strategies for Multiplicative Thinking <ul style="list-style-type: none"> Participants self-select resources to examine from the following: <ul style="list-style-type: none"> Gap Closing Materials Guides to Effective Instruction Rekenrek Activities Multiplication Games 	
Consolidate Debrief	Table Groups→ Discussion <ul style="list-style-type: none"> Participants share using the following prompt: One useful strategy I discovered today was... 	
	Home Activity or Further Classroom Consolidation Participants add to their concept maps for proportional reasoning using the following prompt: What strands or concepts are connected to proportional reasoning for primary students?	

